

## HAZARD SYMBOLS

#### **HAZARDS**

Toxic

Cuts

Burns

#### Eye **⊕н ⊕м ⊕**г LH LM LL Nose Mouth **⇔н ⇔м ⇔**L Hand €H €M€L Poisonous **Explosive** Corrosive Carcinogen Flammable Fatal (A) Narcotic Allergies DO NOT USE **Toxic Gas** Death Medical

#### **SAFETY PRACTICES**

Wet Mop	1
Ventilation	
Dustmask	Q
Gloves	11
Wash hands	<b>3</b>
Avoid Ingestion	
Proper Storage	
Goggles	60
Avoid Flame	

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2. KILDERI	NEATONCH EIRIN		2148
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Care must be taken when cutting and filing metal. Sharp edges can easily cause deep cuts.

Use cutting tools, files, and drills correctly to avoid cuts and other injury.

Avoid inhaling dusts from steel wool in the cleaning process.

Dusts and powdered enamels may cause inhalation irritation. Pigments for colouring may be hazardous depending on the pigment envolved. Use a dust mask when applying enamels.

DO NOT touch hot metal or tools used in removing metal from kiln. Let metal cool on a heat absorbant surface. DO NOT touch kiln elements when kiln is turned on.

Keep work area clean and free from flammable materials. Have an appropriate fire extinguisher available for immediate use.

MATERIAL	SYMBOL	HAZARD
COPPER ENAMELLING	4	Many of the hazardous chemicals used in preparing and firing enamels are the same as those used in preparing and firing creamics and glazes  Inhalation of enamel and spray is hazardous
CLEANING METAL  Nitric acid  nitrogen oxide gas	⊕ H ⊕ H	Highly corrosive to eyes and skin  Toxic nitrogen oxide gas may be released when pickling with nitric acid
Sulfuric acid sulfur dioxide	<b>**</b>	Burning and blistering of skin
Sparex sodium bisulfate	€	Corrosive to skin may cause dermatitis

SYMBOL	SAFETY PRACTICE * CLEAN-UP	ALTERNATIVES
	GENERAL  Maintain the same safety practices used in Ceramics:  No eating, drinking or smoking in the studio  Practice good housekeeping methods  Wash hands carefully after working with materials  Maintain standard fire prevention practices	
**	Use proper ventilation  Wear dust mask  AVOID creating and breathing dust	
60 ;	Wear goggles when mixing or handling acid solutions or spray Place pickling baths under fume hood	Use powdered pumace, water and steel wool to clean metal
41	or beside slot vents  Cover when not in use  Wear gloves	

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MATERIAL	SYMBOL	HAZARD
KILN FIRING TORCH FIRING	<b>*</b>	Thermal burns
ENAMELS AND LUSTERS Preparation and application	∠ H ⊕ H	Inhalation,ingestion, and contact with particles may cause poisoning  Respiratory allergies/ asthma
<b>Gum tragacanth</b> Use: flux	∠M €	Skin allergies
Lead frits Raw lead	桑	Lead poisoning
<b>Nitrobenzene</b> Used for making silver and platinum	<b>∠</b> H	May cause cyanosis, headaches, weakness, and chronic anemia
<u>POTASH</u>	∠ H ⊕ H € M	Respiratory irritation may cause pulmonary edema Ingestion causes intense pain and damage to tissues Corrosive to eyes and skin May cause burns
CLEANUP Lacquer thinner Turpentine	∠ M	Respiratory irritation, pulmonary edema, poisoning See PAINTING

SYMBOL	SAFETY PRACTICE * CLEAN-UP	ALTERNATIVES
が多る	Wear protective gloves Have fire extinguisher available	
Æ	Wash hands after use	
	Paint with a brush rather than spray	
0	AVOID USE	·
0	AVOID USE	
0	AVOID USE	
<b>♡</b>	Use respirator Use with proper ventilation	Use denatured turpentine

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MATERIAL	SYMBOL	HAZARD
CHAMPLEVE ETCHING PROCESS Nitric acid nitrogen oxide gas	© ± ₩	Eye irritation and damage  Toxicity of gas  Corrosive to skin
CLOISONNE  SILVER SOLDERING PROCESS  Borax fumes	∠ <b>M</b>	Irritating to lungs
Fluorides Found in commercial soldering paste	6 H	Toxic by inhalation See SILVERSMITHING
Cadmium Found in silver solder	۵# <b>چ</b>	Pulmonary edema  Very poisonous, may cause death

SYMBOL	SAFETY PRACTICE * CLEAN-UP	ALTERNATIVES
© <b>3</b>	Wear goggles when handling and mixing acid solutions  Always add acid to water  Use proper venting  Wear gloves  Neutralize old acid baths with baking soda and flush with cold water for two minutes  Use proper tongs for removing metal from acid	
**	Use proper venting	Use copper wire which can be applied to a layer of clear enamel which will be held fast when fired, then fill the cloisonnes with enamel
0	AVOID USE	
0	AVOID USE	Use low fire solders that do not contain cadmium